

## CLAIMS:

1. A radiation detector comprising
  - an electrode structure (19,4,35,22)
  - a planarising layer (101) being disposed over the electrode structure and
  - a protective stack (103,105) which covers the planarising layer
- 5 2. A radiation detector as claimed in Claim 1, wherein the planarising layer is formed as a polymer layer.
3. A radiation detector as claimed in Claim 1, wherein the protective stack
- 10 includes a moisture resistant layer and an outer cover.
4. A radiation detector as claimed in Claim 1, which comprises a conversion layer to convert incident radiation into secondary radiation.
- 15 5. A radiation detector as claimed in Claim 4, in which the conversion layer is included in the protective stack.
6. An electronic device comprising
  - an electrode structure
  - a planarising layer being disposed over the electrode structure and
  - a protective stack which covers the planarising layer.
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